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COMPENDIUM OF HUMAN RESPONSES TO THE AEROSPACE ENVIRONMENT

Volume IV

Conversion Tables

Alphabetic Index

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Prepared by

LOVELACE FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH Albuquerque, N. Mex.

for

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION . WASHINGTON, D. C. . NOVEMBER 1968

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COMPENDIUM OF HUMAN RESPONSES TO THE AEROSPACE ENVIRONMENT

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Edited by Emanuel M. Roth, M.D.

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Prepared under Contract No. NASr-115 by LOVELACE FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH Albuquerque, N. Mex.

for

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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CONVERSION TABLES

The multiple systems of units and measures used in the basic biological, physical, and engineering sciences is often confusing to those with interdisciplinary interests. The following tables have been selected from the Arnold Engineering Development Center Document AEDC TDR 62-6 as most pertinent to such interests. Tables of electrical and thermodynamic units not covered in this extract may be found in the AEDC document.

The reader may covert from the measure of quantities in the units listed on the left to those across the top of the page by multiplying by the given factor. The small number to the upper right of each factor is the power of ten by which the factor is to be multiplied. For example, 8.68977⁻² is equivalent to 0.0868977. Underscores indicate exact values.

Slight numerical differences will be noticed between the values herein and those in most currently existing texts because of the redefinition of the foot in 1960.

The only exception to this approach is the altitude table, which is taken from the ARDC Model Atmosphere 1959.

TABLE 1 Length (1, d)

| | • 4 | 5 | £ | fn. | Ę | E | 1 | mils | miles (US) | E E | miles (Nautical) | rods | yd |
|--|-----------------------|-----------|-----------------------|----------------------|------------|------------|----------------------|-----------------------|-----------------------|----------------------|------------------------|-----------------------|-----------------------|
| Angstrom Units | 1,00000 | 1.00000-8 | 3.28084-10 | 3.93701-9 | 1.00000-13 | 1.00000-10 | 1.00000-4 | 3.93701-6 | 6.21371-14 | <u>1.00000-T</u> | 5.39957-14 | 1.98839-11 | 1.09361-10 |
| Centimeters | 1.00000 | 1.00000 | 3.28084-2 | 3.93701-1 | 1.00000-5 | 1.00000-2 | 1,00000 | 3.937012 | 6.21371-6 | 1.00000 ¹ | 5.39957 ⁻⁶ | 1.98839-3 | 1.09361-2 |
| Feet | 3.048009 | 3.048001 | 1.00000 | 1.200001 | 3.04800-4 | 3.04800-1 | 3.048005 | 1.200004 | 1.89394-4 | 3.048002 | 1.64579-4 | 6.06061-2 | 3.33333-1 |
| Inches | 2.54000 ⁸ | 2.54000 | 8.33333 ⁻² | 1.00000 | 2.54000-5 | 2.54000-2 | 2.54000 ⁴ | 1.000003 | 1.57828-5 | 2.540001 | 1.37149-5 | 5.05050-3 | 2.77778-2 |
| Kilometers | 1.0000013 | 1.000005 | 3.280843 | 3.937014 | 1.00000 | 1,000003 | 1.000009 | 3.93701 ⁷ | 6.21371 ⁻¹ | 1.000006 | 5.39957-1 | 1.98839 ² | 1.09361 ³ |
| Meters | 1,0000010 | 1.00000² | 3.28084 | 3.93701 | 1.00000-3 | 1,00000 | 1.00000 ⁶ | 3.937014 | 6.21371-4 | 1,000003 | 5.39957 ⁻⁴ | 1.98839-1 | 1.09361 |
| Microns | 1.00000 | 1.00000-4 | 3.28084-6 | 3.93701-5 | 1.00000-9 | 1.00000-6 | 1.00000 | 3.93701-2 | 6.21371-10 | 1,00000-3 | 5.39957 ⁻¹⁰ | 1.98839-7 | 1.09361-6 |
| Mils | 2.540005 | 2.54000-3 | 8.33333 ⁻⁵ | 1.00000-3 | 2.54000-8 | 2.54000-5 | 2.540001 | 1.00000 | 1.57828-8 | 2.54000-2 | 1.37149-8 | 5.05050-6 | 2.77778 ⁻⁵ |
| Miles (US) | 1.6093413 | 1.609345 | 5.280003 | 6.33600 ⁴ | 1.60934 | 1.609343 | 1.609349 | 6.336007 | 1.00000 | 1.60934 ⁶ | 8.68977 | 3.200002 | 1.760003 |
| Millimeters | 1.00000 | 1.00000-1 | 3.28084-3 | 3.93701-2 | 1.0000-6 | 1.00000-3 | 1,000003 | 3.937011 | 6.21371 ⁻⁷ | 1.00000 | 5.39957 ⁻⁷ | 1.98839-4 | 1.09361 ⁻³ |
| Miles(Mautical) $\frac{1.85200^{13}}{1}$ | 1.85200 ¹³ | 1.852005 | 6.07612 ³ | 7.291344 | 1.85200 | 1.852003 | 1.852009 | 7.2913 ⁴ 7 | 1.15078 | 1.85200 | 1.00000 | 3.68250 ² | 2.02537 ³ |
| Rods | 5.0292010 | 5.02920² | 1.650001 | 1.980002 | 5.02920-3 | 5.02920 | 5.029206 | 1.980005 | 3.12500 ⁻³ | 5.02920 ³ | 2.71555 ⁻³ | 1.00000 | 5.50000 |
| Yards | 9.14400 | 9.144001 | 3.00000 | 3.600001 | 9.14400-4 | 9.14400-1 | 9.144005 | 3.600004 | 5.68182-4 | 9.14400 | 4.93737 ⁻⁴ | 1.81818 ⁻¹ | 1.00000 |

1. LENGTH

TABLE 2 Area (A)

| | Acre (| in. (Circular) | Mil (Circular) | cm ₂ | ft. ² | in. ² | N _B | 1mm 2 | Rod ² | Yard ² |
|-------------------------|------------------------|-----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------|----------------------|-----------------------|-------------------|
| Acre | 1.00000 | 7.98657 ⁶ | 7.98657 | 1.04686 ⁷ | 4.35600 ⁴ | 6.27264 ⁶ | 4.046863 | 4.046869 | 1.60002 | 4.840003 |
| Circular inch | 1.25211-7 | 1,00000 | 1.00000 ⁶ | 5.06707 | 5.45415-3 | 7.85398-1 | 5.06707-4 | 5.06707 | 2.00336-5 | 6.06017-4 |
| Circular mil | 1.25211-13 | 9-00000-1 | 1.00000 | 5.06707-6 | 5.45415-9 | 7.85398-7 | 5.06707-10 | 5.06707-4 | 2.00336-11 | 6.06017-10 |
| Centimeter ² | 2.47105 ⁻⁸ | 1.97353 ⁻¹ | 1.97353 ⁵ | 1,0000 | 1.07639-3 | 1.55000-1 | 1.00000-1 | 1.000002 | 3.95368 ⁻⁶ | 1.19598-4 |
| Feet ² | 2.29568 ⁻⁵ | 1.833472 | 1.833478 | 9.29030 ² | 1.00000 | 1.440002 | 9.29030-2 | 9.29030 ⁴ | 3.67310 ⁻³ | 1.11111-1 |
| Inch ² | 1.59423 ⁻⁷ | 1.27324 | 1.27324 ⁶ | 6.45160 | 6.94444-3 | 1,00000 | 6.45160-4 | 6.451602 | 2.55076 ⁻⁵ | 7.71605-4 |
| Meter ² | 2.47105-4 | 1.97353 ³ | 1.97353 ⁹ | 1.00000 | 1.07639 ¹ | 1.550003 | 1.0000 | 1.000006 | 3.95368-2 | 1.19598 |
| Millimeter ² | 2.47105 ⁻¹⁰ | 1.97353 ⁻³ | 1.97353 ³ | 1.00000-2 | 1.07639-5 | 1.55000 ⁻³ | 1.0000-6 | 1.00000 | 3.95368-8 | 1.19598-6 |
| Rod ² | 6.25000 ⁻³ | 4.99161 ⁴ | 4.99161 ¹⁰ | 2.52928 ⁵ | 2.72250 ² | 3.92040 | 2.529281 | 2.529287 | 1.00000 | 3.025001 |
| Yerd ² | 2.06611-4 | 1.65012 ³ | 1.650129 | 8.36127 ³ | 00000.6 | 1.29600 ³ | 8.36127-1 | 8.36127 ⁵ | 3.30578 ⁻² | 1.00000 |

2. AREA

TABLE 3

Volume (V)

| | Centimeter ³ | Feet ³ | Gallon | Inch ³ | Liter | Meter ³ | Yard ³ |
|--------------------------|-------------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Centimeter ³ | 1,00000 | 3.53146-5 | 2.64171-4 | 6.10236 ⁻² | 9.99972-4 | 1,00000 | 1.30794-6 |
| Feet3 | 2.831684 | 1.00000 | 7,48052 | 1.728003 | 2.83161 | 2.83168-2 | 3.70370 ⁻² |
| Gallon (U.S.) | 3.78543 ³ | 1.33680-1 | 1.00000 | 2.310002 | 3.78533 | 3.78543-3 | 4.95113 ⁻³ |
| Inch ³ | 1.63871 | 5.78704-4 | 4.32900-3 | 1,00000 | 1.63866 ⁻² | 1.63871 ⁻⁵ | 2.14335 ⁻⁵ |
| Liter | 1,00003 ³ | 3.53156-2 | 2.64178 ⁻¹ | 6.10253 ¹ | 1.00000 | 1.00003 ⁻³ | 1.30798 ⁻³ |
| Meter ³ | 1.000006 | 3.53146 ¹ | 2.64171 ² | 6.10236 ⁴ | 9.99972 ² | 1,00000 | 1.30794 |
| Yard ³ (U.S.) | 7.645545 | 2.70000 ¹ | 2.01974 ² | 4.66560 ⁴ | 7.64538 ² | 7.64554-1 | 1.00000 |

3. VOLUME

TABLE 4 Mass (m)

| | Grain | Gram | Kilogram m | Ounce (avdp) Pound mass | Pound | Slug | Ton (short) |
|------------------|----------------------|----------------------|-----------------------|-------------------------|-----------------------|-----------------------|-------------|
| Grain | 1.00000 | 6.47988-2 | 6.47988-5 | 2.28571-3 | 1.42857-4 | 9-21044.4 | 7.14285-8 |
| Grem mass | 1.54323 | 1.00000 | 1.00000-3 | 3.52739-2 | 2.20462 ⁻³ | 6.85216 ⁻⁵ | 1.10231-6 |
| Kilogram mass | 1.54323 ⁴ | 1.000003 | 1,00000 | 3.52739 ¹ | 2.20462 | 6.85216 ⁻² | 1,10231-3 |
| Ounce (avdp) | 4.37500 ² | 2.83495 ¹ | 2.83495 ⁻² | 1,00000 | 6.25000-2 | 1.94256-3 | 3.12500-5 |
| Pound mass | 7.000003 | 4.53592 ² | 4.53592-1 | 1,600001 | 1.00000 | 3.10809-2 | 5.00000-4 |
| Slug | 2.25218 ⁵ | 1.45939 ⁴ | 1.45939 ¹ | 5.14785 ² | 3.21740 ¹ | 1.00000 | 1.60870-2 |
| Ton (short) | 1.40000 ⁷ | 9.071845 | 9.07184 ² | 3.200004 | 2.000003 | 6.21618 ¹ | 1.00000 |

4. MASS

TABLE 5 Time (t, r)

| | Day | Hour | Microsecond Millisecond | Millisecond | Minute | Second |
|-------------|-----------------------|-----------------------|-------------------------|----------------------|-----------------------|-----------|
| Day | 1.00000 | 2.40000 | 8.6400010 | 8.640007 | 1.440003 | 8.64000 |
| Hour | 4.16666-2 | 1,00000 | 3.600009 | 3.600006 | 6.000001 | 3.600003 |
| Microsecond | 1.15741-11 | 2.77778-10 | 1.00000 | 1.00000-3 | 1.66667 ⁻⁸ | 1.00000-6 |
| Millisecond | 1.15741-8 | 2.77778-7 | 1.000003 | 1.00000 | 1.66667-5 | 1.00000-3 |
| Minute | 6.94444- ⁴ | 1.66667-2 | 6.00000 ⁷ | [†] 00000.9 | 1.00000 | 6.000001 |
| Second | 1.15741-5 | 2.77778 ⁻⁴ | 1.00000 | 1.000003 | 1,66666-2 | 1.00000 |

5. TIME

TABLE 6 Angle (a)

| | Degree | Minute | Quadrant (right angle) | Radians | Revolutions | Seconds |
|----------------------------|--------------------------|----------------------|------------------------|-----------------------|-----------------------|----------------------|
| Degree | 1,00000 | 6.000001 | 1.1111-2 | 1.74533-2 | 2.77778-3 | 3.600003 |
| Minute | 1.66667 ⁻² | 1.00000 | 1.85185-4 | 2.90889-4 | 4.62963 ⁻⁵ | 6.000001 |
| Quadrants (right angle) | 9.000001 | 5.400003 | 1,00000 | 1.57080 | 2.50000-1 | 3.240005 |
| Radians | 5.72958 ¹ | 3.43775 ³ | 6.36620-1 | 1.00000 | 1.59155 ⁻¹ | 2,06265 ⁵ |
| Revolutions | 3.600002 | 2.16000 | 00000°† | 6.28320 | 1.00000 | 1.29600 |
| Seconds | 2.77777 ⁻¹⁴ . | 1.66667-2 | 3.08642-6 | 4.84815 ⁻⁶ | 7.71605-7 | 1.00000 |
| | | | | | | |

6. ANGLE

TABLE 7 Velocity (v)

| | cm/sec | ft/min | ft/sec | Kilometer/hr | Knot | Meter/min | Meter/sec | Mile/hr |
|-------------------|----------------------|----------------------|-----------------------|--------------|-----------|-----------|-----------------------|-----------|
| Centimeter/second | 1.00000 | 1.96850 | 3.28084-2 | 3.60000-2 | 1.94384-2 | 6.00000-1 | 1.00000-2 | 2.23694-2 |
| Feet/minute | 5.08000-1 | 1.00000 | 1.66667-2 | 1.82880-2 | 9.87473-3 | 3.04800-1 | 5.08000-3 | 1.13636-2 |
| Feet/second | 3.048001 | 6.00000 ¹ | 1.00000 | 1.09728 | 5.92484-1 | 1.828801 | 3.04800-1 | 6.81818 |
| Kilometer/hour | 2.77778 | 5.46807 ¹ | 9.11344-1 | 1.00000 | 5.39957-1 | 1.66667 | 2.77778 ⁻¹ | 6.21371-1 |
| Knot* | 5.14444 ¹ | 1.01268 ² | 1.68781 | 1.85200 | 1.00000 | 3.08667 | 1 - †††††1° S | 1.15078 |
| Meter/minute | 1.66667 | 3.28084 | 5.46807 ⁻² | 6.00000-2 | 3.23974-2 | 1.00000 | 1.66667-2 | 3.72823-2 |
| Weter/second | 1.000002 | 1.96850 ² | 3,28084 | 3.60000 | 1.94384 | 6.000001 | 1.00000 | 2.23694 |
| Mile/hour | 4.47040 ¹ | 8.50000 ¹ | 1.46667 | 1.60934 | 8.68976-1 | 2.682241 | 1-04024.4 | 1.00000 |

*One knot = one nautical mile per hour

7. VELOCITY

TABLE 8 Force (f)

| | Dyne | Gram force K | Gram force Kilogram force | Newton | Pounda.l | Pound force |
|----------------|----------------------|-----------------------|---------------------------|-----------|----------------------|-----------------------|
| Dyne | 1,00000 | 1.01972 ⁻³ | 1.01972-6 | 1.00000-5 | 7.23301-5 | 2.24809-6 |
| Gram force | 9.80665 ² | 1,00000 | 1.00000-3 | 9.80665-3 | 7.09316-2 | 2.20462 ⁻³ |
| Kilogram force | 9.80665 ⁵ | 1,000003 | 1,00000 | 9.80665 | 7.09316 ¹ | 2.20462 |
| Newton | 1.000005 | 1,01972 | 1.01972-1 | 1.00000 | 7.23301 | 2.24809-1 |
| Poundal | 1.38255 | 1,40981 | 1,40981-2 | 1.38255-1 | 1,00000 | 3.10809-2 |
| Pound force | 4.44822 | 4.53594 ² | 4.53594 ⁻¹ | ր. դ4822 | 3.21740 ¹ | 1,00000 |

8. FORCE

TABLE 9

Pressure (p)

| | Standard Atmosphere | B&r** | Dynes/cm ² (Barye) | Feet Water at 60°F* | Omr_/ cm² | Inches Hg | Inches Water at 60°F* | Keg/cm² | Ibe/ft ² | Lb_f/1n.2 | Micron He | m Hg.* |
|---|------------------------|-----------------------|----------------------------------|-------------------------|-----------------------|-----------------------|--------------------------|-----------------------|----------------------|-----------------------|----------------------|-----------|
| Standard Atmosphere | 1.0000 | 1.01325 | 1.01325 | 3.393201 | 1.03323 ³ | 2,99213 ¹ | 4.07184 ² | 1.03323 | 2.11622 ³ | 1,469591 | 7.600005 | 7.600002 |
| Bar** | 9.86923-1 | 1.00000 | 1.00006 | 3.34882 | 1.01972 ³ | 2.95300 ¹ | 4.018592 | 1.01972 | 2.088543 | 1.450381 | 7.500625 | 7.50062 |
| Dynes/Centimeter ² (Barye) | 9.86923 ⁻⁷ | 9-00000-1 | 1.00000 | 3.34882-5 | 1.01972 ⁻³ | 2.95300 ⁻⁵ | 4.01859-4 | 1.01972-6 | 2.08854-3 | 1.45038-5 | 7.50062-1 | 7.50062-4 |
| Feet Water (at 60°F)* | 2.94707-2 | 2.98612-2 | 2.98612 | 1.00000 | 3.045001 | 8.81801-1 | 1.200001 | 3.04500-2 | 6.236641 | 4.33100-1 | 2.23977 | 2.23977 |
| Gram force/Centimeter ² | 9.67841-4 | 9.80665-4 | 9.80665 | 3.28408-2 | 1.00000 | 2.89590 ⁻² | 3.94089-1 | 1.0000-3 | 2.04816 | 1.42233-2 | 7.355592 | 7.35559-1 |
| Inches Mercury at 32 ⁰ F* | 3.34211-2 | 3.38639-2 | 3.38639 | 1.13404 | 3.453151 | 1,0000 | 1.360851 | 3.45315-2 | 7.07262 | 4.91154-1 | 2.54000 ⁴ | 2.540001 |
| Inches Water at $60^{\circ}F^*$ | 2.45589=3 | 2.48843 ⁻³ | 2,48843 ³ | 8.33333 ⁻² | 2.53750 | 7.34834-2 | 1.00000 | 2.53750 ⁻³ | 5.19720 | 3.60917 ⁻² | 1.86648 ³ | 1.86648 |
| Kilogram force Centimeter 2 | 9.67841-1 | 9.80665-1 | 9.80665 | 3.284081 | 1.000003 | 2.89590 ¹ | 3.940892 | 1.00000 | 2.048163 | 1.42233 | 7.355595 | 7.355592 |
| Poundrarce/Feet | 4.72541 ⁻⁴ | 4.78803-4 | 4.78803 | 1.60343-2 | 4.88243-1 | 1,41390-2 | 1.92411-1 | 4.88243-4 | 1,00000 | 6.944444-3 | 3.59131 ² | 3.59131-1 |
| Found force/Inch | 6.80460-2 | 6.89476 ⁻² | 6.89476 ⁴ | 2,30894 | 7.030701 | 2.03602 | 2.77072 ¹ | 7.03070-2 | 1,44000 ² | 1,00000 | 5.171494 | 5.172497 |
| Microma Mercury at 32 ⁰ F* | 1.31579-6 | 1.33322-6 | 1.33322 | 5-47484.4 | 1.35951-3 | 3.93701 ⁻⁵ | 5.35768-4 | 1.35951-6 | 2.78450-3 | 1,93368-5 | 1,0000 | 1.00000-3 |
| Millimeters Mercury at 32 ⁰ F* | 1.31579 ⁻³ | 1.33322 ⁻³ | 1.33322 ³ | 2-1/19t ⁴ -1 | 1.35951 | 3.93701-2 | 5.35768-1 | 1.35951-3 | 2.78450 | 1.93368-2 | 1.000003 | 1.0000 |

*For g = 980.665 centimeters per second²

** Some writers erroneously use the term ber for barye.

9. PRESSURE

TABLE 10 Energy, Work (e)

| | Btu] | I.T. Calorie | electron | erg (dyne-cm) | rt-13 _f | E 3 89 | hp hr (Mech) | ab. joule | Kilocalorie | kg, m | kv hr | watt hr | ft poundal |
|----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|------------------------|-----------------------|-----------------------|
| Btu | 1,00000 | 2.51996 ² | 6.58577 ²¹ | 1.0550410 | 7.781582 | 1.075847 | 3.93009-4 | 1.055043 | 2.51996-1 | 1.075842 | 2.93067 ⁻¹⁴ | 2.93067 ⁻¹ | 2.50365 |
| I.T.Calorie | 3.96832*3 | 1,0000 | 2.6134419 | 4.186747 | 3.08798 | 4.269284 | 1.55958-6 | 4.18674 | 1,0000-3 | 4.26928-1 | 1.16298 ⁻⁶ | 1.16298-3 | 9.935281 |
| electron volt | 1.51842-22 | 3.82637-20 | 1.0000 | 1.60200-12 | 1.18157-19 | 1.63358-15 | 5.96755-26 | 1.60200-19 | 3.82637-23 | 1.63358-20 | 92-00051.4 | 4.45000-23 | 3.80160-18 |
| erg (dyne-cm) | 9.47831-11 | 2.38849-8 | 6.24220 ¹¹ | 1,0000 | 7.37562-8 | 1.01972 ⁻³ | 3.72506-14 | 1.00000-7 | 2.38849*11 | 1.01972-8 | 2.77778 ⁻¹⁴ | 2.77778-11 | 2.37304-6 |
| rt-10 _f | 1.28509 ⁻³ | 3.23836 ⁻¹ | 8.4632818 | 1.35582 ⁷ | 1.00000 | 1.38255 ⁴ | 5.05050-7 | 1.35582 | 3.23836-4 | 1.38255*1 | 3.76616-7 | 3.76616-4 | 3.21740 ¹ |
| ED June | 9.29505-8 | 2.34231-5 | 6.12150 ¹⁴ | 9.806652 | 7.23301-5 | 1,0000 | 3.65304-11 | 9.80665-5 | 2.34231-8 | 1.00000-5 | 2.72407-11 | 2.72407 ⁻⁸ | 2.32TL5 ⁻³ |
| hp hr (Mech) | 2.544473 | 6.41196 ⁵ | 1.67573 ²⁵ | 2.6845213 | 1.980006 | 2.73745 ¹⁰ | 1.00000 | 2.684526 | 6,411962 | 2.73745 ⁵ | 7.45700-1 | 7.457002 | 6.37046 ⁷ |
| mb. joule (Watt sec) | 9,47831-4 | 2.38849-1 | 6.24220 ¹⁸ | 1.00000 ⁷ | 7.37562 ⁻¹ | 1.01972 | 3.72506 ⁻⁷ | 1.00000 | 2.38849 ⁻⁴ | 1.01972 ⁻¹ | 2.77776-7 | 2.77778-4 | 2.373041 |
| dlocalorie | 3.96832 | 1.000003 | 2,61344 ²² | 4.18674 | 3.08798 ³ | 14.26928 ⁷ | 1,55958-3 | 4.18674 ³ | 1.00000 | 4.26928 ² | 1.16298 ⁻³ | 1.16298 | 9.935284 |
| 18¢ 11 | 9.29505 ⁻³ | 2.34231 | 6.12150 ¹⁹ | 9.80665 | 7.23301 | 1.000005 | 3.65304-6 | 9.80665 | 2.34231 ⁻³ | 1.00000 | 2.72407 ⁻⁶ | 2.72407 ⁻³ | 2.32715 ² |
| Id V | 3.4.2193 | 8.59858 ⁵ | 2.24719 ²⁵ | 3.600013 | 2.655226 | 3.6709810 | 1.34102 | 3.600006 | 8.59858² | 3.67098 ⁵ | 1.00000 | 1,00000 ³ | g.54293 ⁷ |
| att br | 3.41219 | 8.598582 | 2.24719 ²² | 3.600010 | 2.655223 | 3.670987 | 1.34102-3 | 3.600003 | 8.59858-1 | 3.67098 ² | 1.00000-3 | 1.00000 | 8.54293 ⁴ |
| rt poundal | 3.99417"5 | 1.00651-2 | 2.63047 ¹⁷ | 4.21401 ⁵ | 3.10810-2 | 4.29710 ² | 1.56974-8 | 4.21401-2 | 1.00651-5 | 4.29710 ⁻³ | 1.17056-8 | 1.17056*5 | 1,0000 |
| | | | | | | | | | | | | | |

| | 1 Bfr: 1 I.T. Cal | |
|--------------|---------------------------------|--|
| Definitions: | Definitions: OF 1h = Oc on | <pre>l Btu = 1055.8 absolute joules</pre> |
| | 1 I.T.Cal = 1/860 int. watt hr | 1 Btu ₃₉ °F = 1060 absolute joules |
| | 1 int. watt = 1.000165 ab. watt | 1 Btu ₆₀ F = 1054.6 absolute joules |
| | | I.T. Btu = 1055.04 absolute joules |
| | | 0 1 1 |

1 Btu mean = 1055.8 absolute joules 1 Cal mean = 4.190 absolute joules 1 Btu $_{29}^{\circ}$ F = 1060 absolute joules 1 Cal $_{20}^{\circ}$ C = 4.181 absolute joules 1 Thermochemical Calorie = 4.1840 absolute joules 1.T. Cal $_{20}^{\circ}$ C = 4.18574 absolute joules 1 I.T. Calcalorie = 1/860 international waith hour I.T. Calorie = 4.18674 absolute joules 1 I.T. Calorie = 2.000 calorie = 1000 calories

10. ENERGY

TABLE 11 Power (P)

| | Btu/hr | Btu/min | Btu/sec I | I.T.Cal/hr I | Cal/hr I.T.Cal/minI.T.Cal/sec | .T.Cal/sec | erg/Bec | ft-lbg/min ft-lbg/sec | ft-1b _f /sec | hp (Elec) | hp (Mech) | hp (Metric) | λg _e π/sec | Ą | > |
|-----------------------------------|-----------------------|-----------------------|-----------------------|----------------------|-------------------------------|-----------------------|----------------------|-----------------------|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Btu/br | 1.0000 | 1.66667-2 | 2.77778-4 | 2.519962 | t-19993 | 6.99988-2 | 2.93067 ⁶ | 1.29693 ¹ | 2.16155 ⁻¹ | 3.92851-4 | 3.93009-4 | 3.98460-4 | 2.98845-2 | 2.93067-4 | 2.93067 ⁻¹ |
| Btu/min | 6.00000 ¹ | 1.00000 | 1.66667-2 | 1.51197 ⁴ | 2.51996 ² | £6661.4 | 904857.1 | 7.78158 | 1.296931 | 2.35711-2 | 2.35805-2 | 2.39076"2 | 1.79307 | 1.75840-2 | 1.758401 |
| Btu/sec | 3.600003 | 6.00001 | 1.00000 | 9.07183 ⁵ | 1.51197 | 2.51996 ² | 1.0550410 | 4.6899.4 | 7.781582 | 1.41426 | 1.41483 | 1.43446 | 1.075842 | 1.05504 | 1.055043 |
| I.T.Cal/hr | 3.96832 ⁻³ | 6.61387-5 | 1.10231 ⁻⁶ | 1,0000 | 1.66667-2 | 2.7TT78 ⁻¹ | 1.162984 | 5.14663-2 | 8.57772 ⁻⁴ | 1.55896-6 | 1.55958-6 | 1.58122-6 | 1.18591-4 | 1.16298-6 | 1.16298-3 |
| I.T.Cal/min 2.38099 ⁻¹ | 2.38099 ⁻¹ | 3.96832 ⁻³ | 6.61387 ⁻⁵ | 6.000001 | 1,0000 | 1.66667-2 | 6.977905 | 3.08798 | 5.14663-2 | 9.35376 ⁻⁵ | 9.35751-5 | 9.48730-5 | 7.11547 ⁻³ | 6.97790-5 | 6.97790-2 |
| I.T.Cal/sec 1.42859 ¹ | 1.428591 | 2.38100 ⁻¹ | 3.96832 ⁻³ | 3.60003 | 6.000001 | 1.00000 | 4.18674 ⁷ | 1.852792 | 3.08798 | 5.61225 ⁻³ | 5.61451-3 | 5.69238-3 | 4.26928-1 | 4.18674-3 | 4.18674 |
| erg/sec | 3.41219-7 | 5.68699 ⁻⁹ | 9.47831-11 | 8.59858-5 | 1.43310-6 | 2.38849-8 | 1.00000 | 4.42537-6 | 7.37562-8 | 1.34048-10 | 1.34102-10 | 1.35962-10 | 1.01972-8 | 1.00000-10 | 1.00000-7 |
| rt-lb _f /min | 7.71052-2 | 1.28509 ⁻³ | 2.14181-5 | 1.94302 | 3.23836 ⁻¹ | 5.39727 ⁻³ | 2.25970 ⁵ | 1.00000 | 1.66667-2 | 3.02909-5 | 3.03030-5 | 3.07233 ⁻⁵ | 2.30425-3 | 2.25970-5 | 2.25970-2 |
| ft-lb _f /sec | 4.62631 | 7.71052 ⁻² | 1.28509 ⁻³ | 1.16581 ³ | 1.94302 ¹ | 3.23836 ⁻¹ | 1.35582 ⁷ | 6.00000 ¹ | 1.00000 | 1.81745-3 | 1.81818-3 | 1.84340-3 | 1.38255 ⁻¹ | 1.35582 ⁻³ | 1.35582 |
| hp (Elec) | 2.54549 ³ | 4.24249 ¹ | 7.07081-1 | 6.41453 ⁵ | 1.06909 | 1.78182² | 7.460009 | 3.30132 ⁴ | 5.50221 ² | 1.00000 | 1.00040 | 1.01427 | 7.60707 | 7.46000-1 | 7.460002 |
| hp (Mech) | 2.544473 | 4.24079 ¹ | 7.06798 ⁻¹ | 6.411965 | 1.06866 ⁴ | 1.78110² | 7.457019 | 3.3000ct | 5.500002 | 9.99599-1 | 1.0000 | 1.01387 | 7.604021 | 7.45701-1 | 7.457012 |
| hp (Metric) 2,50966 ³ | 2.50966 ³ | 4.18277 | 6.97129 ⁻¹ | 6.32424 ⁵ | 1.054044 | 1.75673 ² | 7.355009 | 3.254864 | 5.424762 | 9.85924-1 | 9.86320 ⁻¹ | 1.00000 | 7.500001 | 7.35500 ⁻¹ | 7.35500² |
| lg_m/sec | 3.34622 | 5.57703 ⁻¹ | 9.29505 ⁻³ | 8.43233 ³ | 1.40539 ² | 2.34231 | 9.806657 | 4.339812 | 7.23301 | 1.31456-2 | 1.31509-2 | 1.33333-2 | 1.0000 | 9.80665-3 | 9.80665 |
| Milomete | 3.41219 ³ | 5.68699 ¹ | 9.47831-1 | 8.59858 ⁵ | 1.43310 ⁴ | 2.38849 ² | 1.0000010 | 4.425374 | 7.37562 | 1.34048 | 1.34102 | 1.35962 | 1.01972 | 1.0000 | 1.00000 ³ |
| tt | 3.41219 | 5.68699 ⁻² | 9.47831-4 | 8.598582 | 1.433101 | 2.38849 ⁻¹ | 1,00000 | 4.42537 | 7.37562-1 | 1.34048 ⁻³ | 1.34102-3 | 1.35962-3 | 1.01972-1 | 1.00000-3 | 1.00000 |
| | | | | | | | | | | | | | | | |

11. POWER

TABLE 14 Temperature* (T, θ)

| To convert from the units below to those on the right, perform the indicated operations in order. | ೨٥ | O _F | ж _о | Å |
|---|----------------|----------------|-----------------|----------------|
| ರಿಂ | × 1 | x 9/5 + 32 | + 273.15 | x 9/5 + 491.67 |
| નુo - | - 32 x 5/9 | x 1 | x 5/9 + 255.372 | + 459.67 |
| Мо | - 273.15 | x 9/5 - 459.67 | x 1 | × 9/5 |
| & | x 5/9 - 273.15 | - 459.67 | x 5/9 | х |

* Based on the thermodynamic temperature scale as defined by the Tenth General Conference on Weights and Measure meeting at Paris in October 1954.

Temperature of triple point of water = $273.16^{\rm O}{\rm K}$ = $491.688^{\rm O}{\rm R}$ = $32.018^{\rm O}{\rm F}$ = $0.01^{\rm O}{\rm C}$

Temperature of ice point of water = $273.15^{\circ}K$ = $491.67^{\circ}R$ = $0^{\circ}C$ = $32^{\circ}F$

14. TEMPERATURE

TABLE 15
Altitude (A)

| Altitude | Temperature | Press | ure |
|----------|-------------|---------|--------|
| (feet) | °F. | mm. Hg. | p.s.i. |
| 0 | 59.000 | 759.99 | 14.696 |
| 500 | 57.217 | 746.76 | 14.440 |
| 1000 | 55.434 | 733.53 | 14.184 |
| 1500 | 53.652 | 720.27 | 13.928 |
| 2000 | 51.869 | 707.03 | 13.672 |
| 2500 | 50.086 | 693.80 | 13.416 |
| 3000 | 48.304 | 681.51 | 13.178 |
| 3500 | 46.521 | 669.24 | 12.941 |
| 4000 | 44.739 | 656.95 | 12.703 |
| 4500 | 42.956 | 644.68 | 12.466 |
| 5000 | 41.174 | 632.38 | 12.228 |
| 5500 | 39.392 | 621.00 | 12.008 |
| 6000 | 37.610 | 609.63 | 11.788 |
| 6500 | 35.827 | 598.22 | 11.568 |
| 7000 | 34.045 | 586.84 | 11.348 |
| 7500 | 32.263 | 575.46 | 11.128 |
| 8000 | 30.481 | 564.92 | 10.924 |
| 8500 | 28.700 | 554.38 | 10.720 |
| 9000 | 26.918 | 543.84 | 10.516 |
| 9500 | 25.137 | 533.30 | 10.312 |
| 10000 | 23.355 | 522.75 | 10.108 |
| 10500 | 21.574 | 513.00 | 9.9200 |
| 11000 | 19.793 | 503.28 | 9.7318 |
| 11500 | 18.012 | 493.52 | 9.5432 |
| 12000 | 16.231 | 483.79 | 9.3551 |
| 12500 | 14.450 | 474.04 | 9.1665 |
| 13000 | 12.669 | 465.05 | 8.9926 |
| 13500 | 10.888 | 456.06 | 8.8188 |
| 14000 | 9.108 | 447.07 | 8.6449 |
| 14500 | 7.327 | 438.07 | 8.4710 |
| 15000 | 5.546 | 429.08 | 8.2972 |

TABLE 15 (continued)

| Altitude | Temperature | Pres | sure |
|----------|---|---------|--------|
| (feet) | °F. | mm. Hg. | p.s.i. |
| 15500 | 3.766 | 420.80 | 8.1370 |
| 16000 | 1.985 | 412.52 | 7.9769 |
| 16500 | 0.205 | 404.22 | 7.8163 |
| 17000 | - 1.576 | 395.94 | 7.6562 |
| 17500 | - 3.356 | 387.65 | 7.4961 |
| 18000 | - 5.136 | 380.03 | 7.3487 |
| 18500 | - 6.916 | 372.41 | 7.2014 |
| 19000 | - 8.695 | 364.77 | 7.0535 |
| 19500 | -10.475 | 357.15 | 6.9062 |
| 20000 | -12.255 | 349.53 | 6.7589 |
| 21000 | -15.814 | 335.51 | 6.4877 |
| 22000 | -19.373 | 321.51 | 6.2171 |
| 23000 | -22.931 | 308.08 | 5.9573 |
| 24000 | -26.489 | 295.25 | 5.7092 |
| 25000 | -30.047 | 282.40 | 5.4607 |
| 26000 | -33.604 | 270.64 | 5.2333 |
| 27000 | -37.161 | 258.88 | 5.0059 |
| 28000 | -40.718 | 247.62 | 4.7883 |
| 29000 | -44.275 | 236.88 | 4.5805 |
| 30000 | -47.831 | 226.13 | 4.3727 |
| 31000 | -51.387 | 216.33 | 4.1832 |
| 32000 | -54.942 | 206.53 | 3.9937 |
| 33000 | -58.497 | 197.17 | 3.8127 |
| 34000 | -62.052 | 188.25 | 3.6402 |
| 35000 | -65.607 | 179.33 | 3.4677 |
| 36000 | -67.244 | 171.25 | 3.3115 |
| 37000 | -68.881 | 163.18 | 3.1554 |
| 38000 | • | 155.55 | 3.0078 |
| 39000 | | 148.37 | 2.8690 |
| 40000 | -69.700 | 141.18 | 2.7301 |

TABLE 15 (continued)

| Altitude | Temperature | Press | ure |
|----------|-------------|------------------------|------------------------|
| (feet) | °F. | mm. Hg. | p.s.i. |
| 41000 | | 134.81 | 2.6069 |
| 42000 | | 128.44 | 2.4837 |
| 43000 | | 122.43 | 2.3675 |
| 44000 | | 116.78 | 2.2582 |
| 45000 | -69.700 | 111.13 | 2.1490 |
| 46000 | | 106.12 | 2.0520 |
| 47000 | | 101.11 | 1.9552 |
| 48000 | | 96.380 | 1.8637 |
| 49000 | | 91.933 | 1.7777 |
| 50000 | -69.700 | 87.488 | 1.6918 |
| 51000 | | 83.543 | 1.6155 |
| 52000 | ~~~ | 79.599 | 1.5392 |
| 53000 | | 75.877 | 1.4672 |
| 54000 | | 72.380 | 1.3996 |
| 55000 | -69.700 | 68.882 | 1.3320 |
| 56000 | | 65.778 | 1.2720 |
| 57000 | | 62.674 | 1.2119 |
| 58000 | | 59.746 | 1.1553 |
| 59000 | | 56.993 | 1.1021 |
| 60000 | -69.700 | 54.239 | 1.0488 |
| 61000 | | 51.069 | 9.8753x10 |
| 62000 | | 47.902 | 9.2628 |
| 63000 | | 44.732 | 8.6498 |
| 64000 | | 41.562 | 8.0368 |
| 65000 | | 38.395 | 7.4244 |
| 70000 | -69.700 | 33.640 | 6.5049 |
| 80000 | -69.700 | 20.874 | 4.0365 |
| 90000 | -57.204 | 13.033 | 2.5202 |
| 100000 | -40.893 | 8.2906 | 1.6031 |
| 150000 | 40.425 | 1.0988 | 2.1248×10 |
| 200000 | - 10.69 | 1.6934 | 3.2744x10 |
| 300000 | -160.5 | 7.605×10^{-4} | 1.471×10 |
| 400000 | 464.2 | 1.351×10 ⁻⁵ | 2.612×10 |
| 500000 | 1473 | 3.721×10^{-6} | 7.195×10 ⁻⁸ |
| 1000000 | 2104 | 1.777×10-7 | 3.437x10-9 |
| 2000000 | 2604 | 3.612×10^{-9} | 6.984×10 ⁻¹ |

AEROSPACE ENVIRONMENTS

- 1. Microwave Radiation
- 2. Light
- 3. Ionizing Radiation
- 4. Magnetic Fields
- 5. Electric Current
- 6. Thermal Environment
- 7. Acceleration
- 8. Vibration
- 9. Sound and Noise
- 10. Oxygen-CO₂-Energy
- 11. Inert Gas
- 12. Pressure
- 13. Contaminants
- 14. Nutiriton
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- 16. Anthropometry and Temporo-spatial Environment

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